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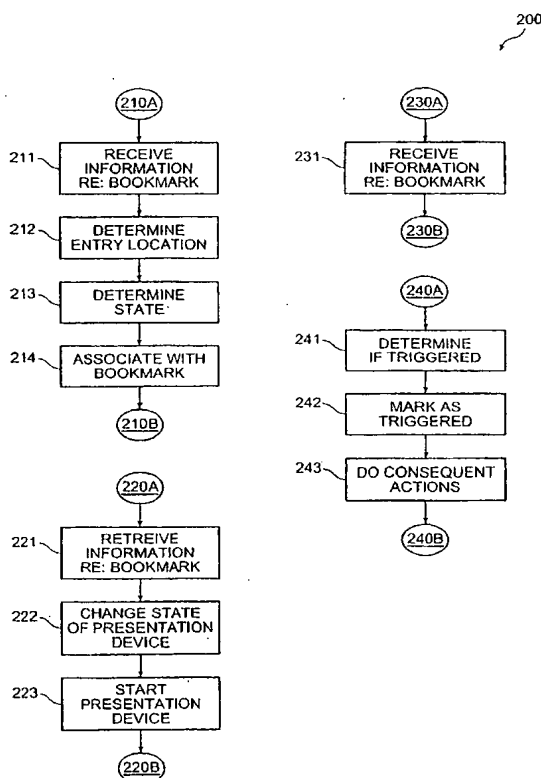
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(54) Title: **BOOKMARKS AND WATCHPOINTS FOR SELECTION AND PRESENTATION OF MEDIA STREAMS**



(57) Abstract: Selection and presentation of media streams, in which presentation is not limited by order imposed by the digital content representative of those media streams, in response to bookmarks (211) and watchpoints settable and usable by a user. Bookmarks reference a location within the media stream, not necessarily pre-selected and possibly dynamically selected, in which a presentation can be started or restarted therefrom. Watchpoints reference a location within the media stream, or a presentation state for the media stream, in which an action can be triggered thereby. Bookmarks and watchpoints provide a general technique for presenting selections from media streams in response to metadata.

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GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/00302

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06 F 17/30

US CL : 707/104.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 707/10,1,104.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
USPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 2003/0126599 A1 (NOVAK et al) 03 JULY 2003 (03.07.2003), whole document.	1-8,10,14-26,28-31,43-64,66-74
Y,P		9,11-13,27,65,32-36
Y	US 6,349,143 B1 (HASTINGS et al) 19 FEBRUARY 2002 (19.02.2002), col.3, lines 35-40.	32-36
Y,P	US 2003/0191738 A1 (HOEYE et al) 09 OCTOBER 2003 (09.10.2003), parag. 28.	27,65
E,X	US 6,889,383 B1 (JARMAN) 03 MAY 2005 (03.05.2005), whole document.	1-74
E,Y	US 2004/0166915 A1 (ROBARGE) 26 AUGUST 2004 (26.08.2004), pargs. 15, 33,36, 39,41.	1-74
E,Y	US 2005/0004873 A1 (POU et al) 06 January 2005 (06.01.2005), parag. 27.	1-74
E,Y	US 2004/0166484 A1 (BUDKE et al) 26 AUGUST 2004 (26.08.2004), parag. 41,83	1-74
Y,P	US 2003/0030752 A1 (BEGEJA et al) 13 FEBRUARY 2003 (13.02.2003), parag. 43.	11-13

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier application or patent published on or after the international filing date

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&" document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/00302

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,P	US 2003/0163466 A1 (RAJARAMAN et al) 28 AUGUST 2003 (28.08.2003), parag.4	33
Y,P	US 2003/0163430 A1 (TAKAKU) 28 AGUST 2003 (28.08.2003), parag. 28.	9

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-36 and 43-74

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-36, 43-74 drawn to presentation of media streams whereby a bookmark and watchpoint designates a film clip, the film clip capable of being presented.

Group II, claim(s) 37-42, drawn to sending a media stream to a first recipient and sending a media stream and a bookmark to a second recipient.

Group III, claim(s) 75-112, drawn to a directed graph of presentation for the media streams in which media streams are represented by vertices in a directed graph.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special features Group I is presentation of media streams whereby a bookmark and watchpoint designates a film clip, the film clip capable of being presented. The special feature of Group II is sending a media stream to a first recipient and sending a media stream and a bookmark to a second recipient. The special feature of Group III is a directed graph of presentation for the media streams in which media streams are represented by vertices in a directed graph.

None of these special features are common to the other groups, nor do they correspond to a special feature in the other groups. Therefore, unity of the invention is lacking.